at1110paper_practice_test (v107)

1. Solve the equation with factoring by grouping.

$$15x^2 + 10x + 18x + 12 \ = \ 0$$

2. Solve the equation.

$$4x^2 - 9x - 4 \ = \ 2x^2 + 4x + 3$$

3. Expand the following expression into standard form.

$$(3x - 4)^2$$

4. Factor the expression.

$$49x^2 - 9$$

5. Expand the following expression into standard form.

$$(9x - 5)(9x + 5)$$

6. Solve the equation.

$$(4x - 9)(7x + 8) = 0$$

7. Factor the expression.

$$x^2 - 15x + 56$$

8. Expand the following expression into standard form.

$$(9x + 4)(3x - 8)$$